

RDKC_2021q4_dunfell

This is the summary page that describes CMF quarterly release rdkc-2021q4-dunfell, based on the new branch rdk-next and dunfell oe layers. Below are links to the relevant documents.

Note: The master branch has been deprecated in select community repositories and rdk-next is now the lead development branch.

Note: The latest rdkc quarterly release addresses licensing issues so users are advised to move to the latest iteration.

- [rdkc-2021q4-dunfell RaspberryPi 3 Test Report](#) (Gerrit)

Note: For the Gerrit links, you need to log in before you will be able to see the contents.

- [Baseline](#)
- [Highlights](#)
 - [Components updated since rdkc-2021q3-dunfell](#)
 - [Community contributions](#)
- [Getting the code](#)
 - [Building for RaspberryPi0](#)
 - [Building for RaspberryPi3](#)
- [Documentation](#)
- [Testing](#)
 - [Sanity Testing](#)
 - [TDK Testing](#)

Baseline

Baseline	nightly/20211207-dunfell
Post-baseline updates	
TDK	M95
Manifest Branch	rdkc-2021q4-dunfell

Highlights

Components updated since rdkc-2021q3-dunfell

crashupload	rdk_logger
iarmbus	rdk/components/opensource/rtmessage
libSyscallWrapper	rdk/components/opensource/sysint
meta-cmf	rdk/devices/intel-x86-pc/emulator/sysint
meta-cmf-camera	rdk/components/opensource/cvr
meta-cmf-qt5	rdk/components/opensource/httpClients
meta-cmf-raspberrypi	rdk/components/opensource/ledmgr
meta-cmf-video	rdk/components/opensource/rms
meta-rdk	rdk/components/opensource/thumbnail
meta-rdk-bsp-emulator	
meta-rdk-camera	
meta-rdk-ext	

Community contributions

A detailed changelog since the last release [rdkc-2021q3-dunfell](#) can be found [here](#).

Getting the code

Note: The manifests repository is only available to RDK licensees.

```
mkdir <workspace dir>

cd <workspace dir>

repo init -u https://code.rdkcentral.com/r/manifests -m rdkc-extsrc.xml -b rdkc-2021q4-dunfell
repo sync -j `nproc` --no-clone-bundle --no-tags
```

- The -m rdkc-extsrc.xml in the sequence above is important. If this is not specified, you will get an RDK-V tree by default.
- There is also a nosrc manifest rdkc-nosrc.xml which can be used instead of extsrc
- The -b rdkc-2021q4-dunfell in the build sequence above specifies the branch to use.
- If you omit the -b rdkc-2021q4-dunfell entirely, you will get the HEAD of each component

Building for RaspberryPi0

```
mkdir <workspace dir>

cd <workspace dir>

repo init -u https://code.rdkcentral.com/r/manifests -m rdkc-extsrc.xml -b rdkc-2021q4-dunfell
repo sync -j `nproc` --no-clone-bundle --no-tags

MACHINE=raspberrypi0-rdk-camera source meta-cmf-raspberrypi/setup-environment

bitbake rdk-generic-camera-image

# To build TDK image
$ bitbake rdk-generic-camera-tdk-image
```

Building for RaspberryPi3

```
mkdir <workspace dir>

cd <workspace dir>

repo init -u https://code.rdkcentral.com/r/manifests -m rdkc-extsrc.xml -b rdkc-2021q4-dunfell
repo sync -j `nproc` --no-clone-bundle --no-tags

MACHINE=raspberrypi3-rdk-camera source meta-cmf-raspberrypi/setup-environment

bitbake rdk-generic-camera-image

# To build TDK image
$ bitbake rdk-generic-camera-tdk-image
```

Documentation

Documentation on the RDK-C reference platforms including host requirement setup and flashing instructions are available from the following links:

[RDK Reference Platforms](#)

[RDK-C Raspberry Pi](#)

Testing

Sanity Testing

Sanity tests include:

- Flashed the image and verify the initial boot
- Rebooting the RPI multiple times without doing any operation
- SSH connectivity
- WiFi Connection
- Camera Detection
- CVR playback validation using v4l2 source
- RMS Playback through RTSP

TDK Testing

- TDK component tests were run against the release, RPI results are available [here](#).
- TDK Test Lists were based on [TDK M95 Release](#)
- Refer to the [test release metrics](#) page for detailed test results and comparison to previous releases (*available for preferred members only*)